

AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** A method of transmitting signals from at least two antennae comprising the steps of:

detemining at least one correlation coefficient [degree of difference] between received signals from the at least two antennae; and

in response to the at least one determined correlation coefficient [using the degree of difference to] selecting at least one of [between] orthogonal coding and beamforming for transmitting signals using the at least two antennae.

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2. **(Currently Amended)** The method of claim 1, wherein the step of determining at least one correlation coefficient [degree of difference] between the received signals comprises determining at least one [degree of] amplitude correlation coefficient [difference].

3. **(Currently Amended)** The method of claim 1, wherein the step of determining at least one correlation coefficient [degree of difference] between the received signals comprises determining at least one [degree of] phase correlation coefficient [difference].

4. **(Currently Amended)** The method of claim 3, wherein the at least one [degree of] phase correlation coefficient [difference] is estimated.

5. **(Currently Amended)** The method of claim 1, wherein the step of determining at least one correlation coefficient [degree of difference] comprises determining at least one [degree of] correlation between received signals.

6. **(Currently Amended)** The method of claim 1, wherein the step of selecting at least one of orthogonal coding and beamforming [using the degree of difference] comprises selecting [using the degree of difference to select] a proportion of orthogonal coding relative to a proportion beamforming of the transmitting signal.

AI 7. **(Currently Amended)** The method of claim 6, wherein the at least one correlation coefficient [degree of difference can] varies[y] between a first level and a second level[, where the first level results in selecting beamforming for transmitting and where the at least one correlation coefficient degree of difference being substantially equal to the second level results in selecting orthogonal coding for transmitting].

8. **(Currently Amended)** The method of claim [7]13, wherein [a] the at least one correlation coefficient [degree of difference] between the first and second levels results in selecting both beamforming and orthogonal coding for transmitting.

CONT 9. **(Currently Amended)** The method of claim [7]13, wherein the at least one correlation coefficient [degree of difference] determines the proportion of beamforming relative to orthogonal coding used for transmitting.

10. **(Currently Amended)** The method of claim 9, wherein the at least one correlation coefficient [a degree of difference] being at a level that is closer to the first level results in transmitting more beamforming than orthogonal coding.

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11. **(Currently Amended)** The method of claim 9, wherein the at least one correlation coefficient [degree of difference] being at a level that is closer to the second level results in transmitting using more orthogonal than beamforming.

CONT
12. **(Currently Amended)** The method of claim 9, wherein the at least one correlation coefficient [degree of difference] relative to the first and second reference levels determines the relative amounts of beamforming relative to orthogonal coding used for transmitting.

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13. **(New)** The method of claim 7, wherein the first level results in selecting beamforming for transmitting and wherein the at least one correlation coefficient being substantially equal to the second level results in selecting orthogonal coding for transmitting.
